

## INTERNATIONAL SEARCH REPORT

Inten

Application No

PCT/IB2004/052272

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G11B7/013

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 545 965 B1 (HAYASHI HIDEKI) 8 April 2003 (2003-04-08) column 9, line 13 - column 16, line 48; figures	1-15
A	US 6 600 698 B1 (UCHIDA AKIYOSHI ET AL) 29 July 2003 (2003-07-29) column 9, line 61 - column 23, line 51; figures	1-15
A	PATENT ABSTRACTS OF JAPAN vol. 018, no. 278 (P-1743), 26 May 1994 (1994-05-26) & JP 06 044572 A (SONY CORP), 18 February 1994 (1994-02-18) abstract	1-15



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

## \* Special categories of cited documents

\*A\* document defining the general state of the art which is not considered to be of particular relevance

\*E\* earlier document but published on or after the international filing date

\*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

6 May 2005

Date of mailing of the international search report

20/05/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Geoghegan, C

# INTERNATIONAL SEARCH REPORT

Information on patent family members

Inter

Application No

PCT/IB2004/052272

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6545965	B1	08-04-2003 JP 2000207747 A	28-07-2000
US 6600698	B1	29-07-2003 JP 2001167435 A	22-06-2001
		US 2003210615 A1	13-11-2003
		US 2005007893 A1	13-01-2005
JP 06044572	A	18-02-1994 JP 3225668 B2	05-11-2001
		DE 69324858 D1	17-06-1999
		DE 69324858 T2	14-10-1999
		DE 69330503 D1	30-08-2001
		DE 69330503 T2	28-03-2002
		DE 69331163 D1	20-12-2001
		DE 69331163 T2	18-04-2002
		EP 0580876 A1	02-02-1994
		EP 0829854 A1	18-03-1998
		EP 0829855 A1	18-03-1998
		EP 0829856 A1	18-03-1998
		WO 9317417 A1	02-09-1993
		JP 3227803 B2	12-11-2001
		JP 5298706 A	12-11-1993
		US 5633854 A	27-05-1997
		US 5684783 A	04-11-1997
		US 5559786 A	24-09-1996
		US 5513161 A	30-04-1996
		US 5557602 A	17-09-1996
		US 5606545 A	25-02-1997
		US 5602810 A	11-02-1997